This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

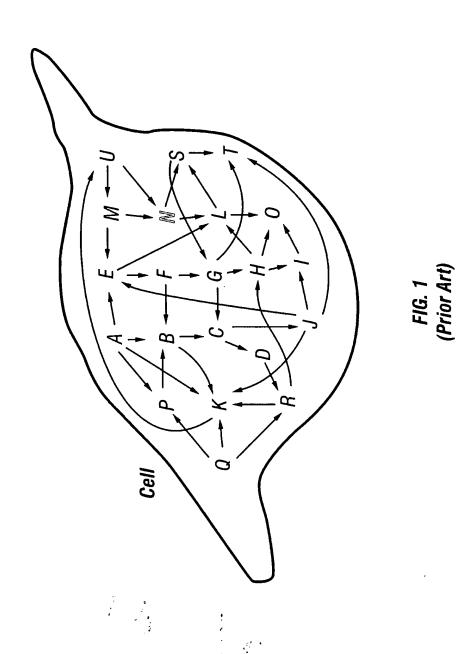
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

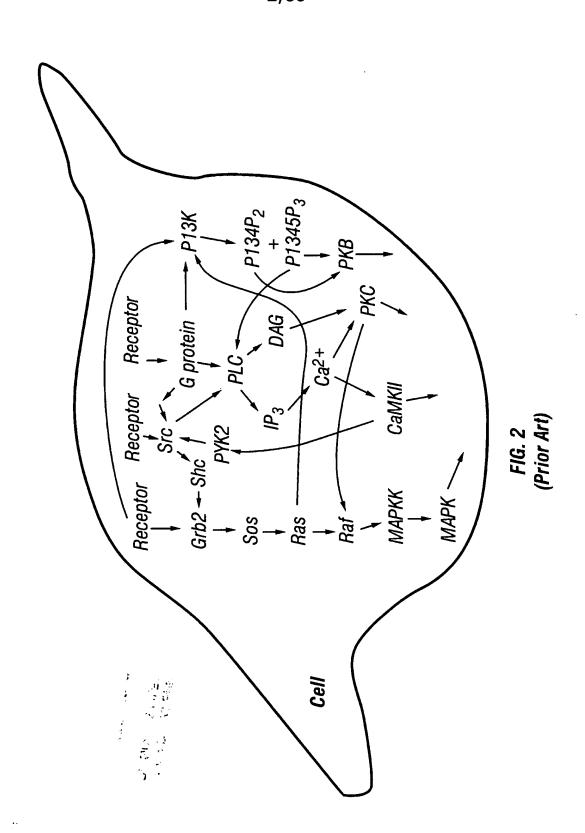
IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

Serial No. 09/990,413 Docket No. QUAR Filing Date: 1121/01 Inventor(s): Allbritton et al.

1/33





.

3/33

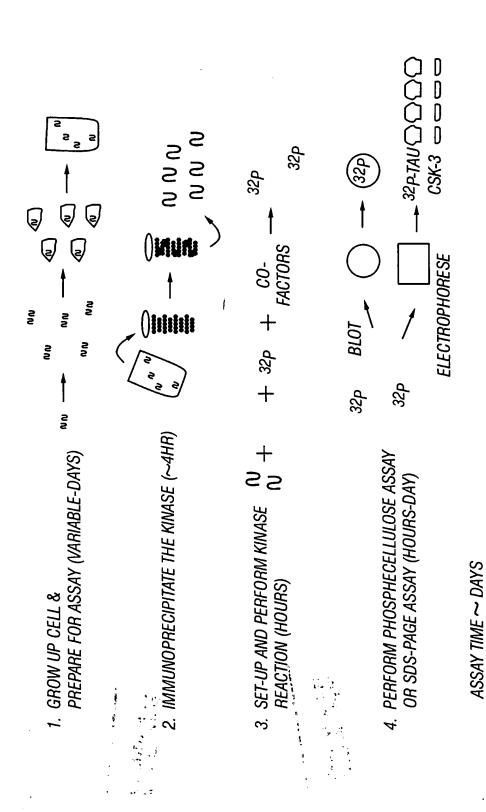
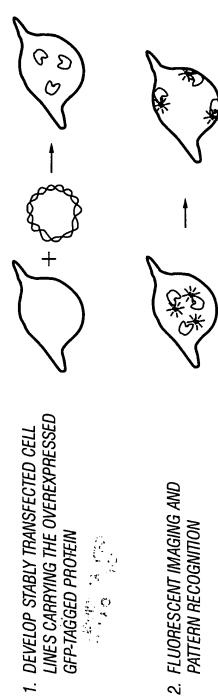


FIG. 3 (Prior Art)



GFP-TAGGED PROTEIN

2. INFER PROTEIN ACTIVITY FROM LOCATION

ASSAY TIME ~ MINUTES

FIG. 4 (Prior Art)

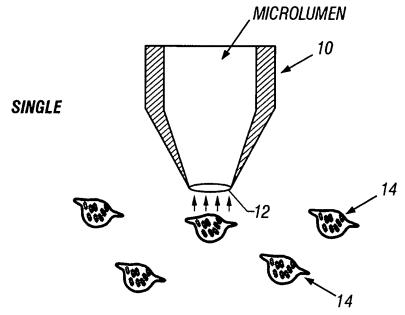


FIG. 5A-1

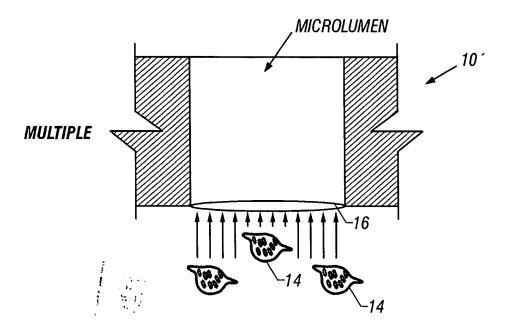


FIG. 5A-2

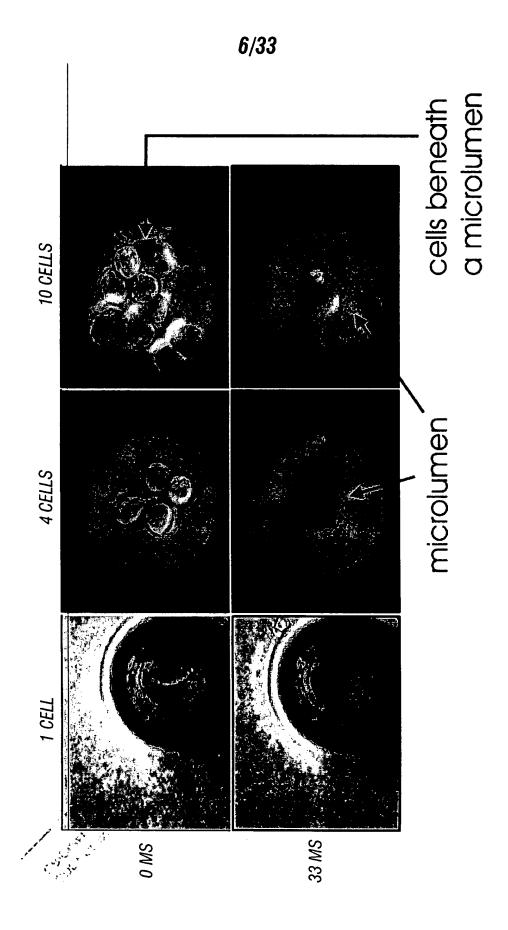


FIG. 5B

7/33

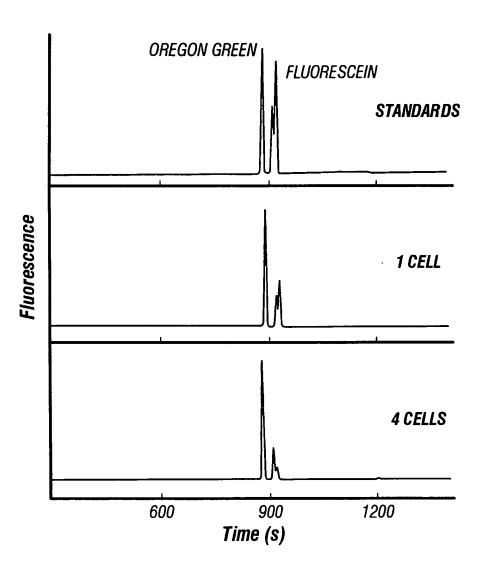
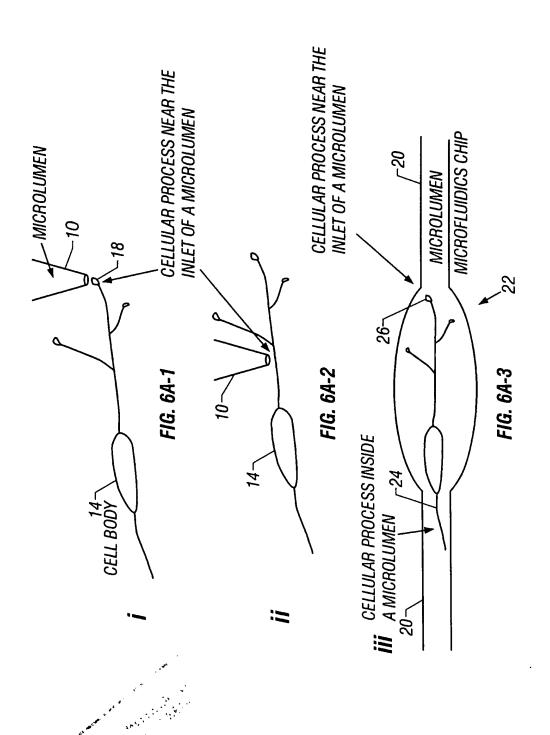


FIG. 5C



POSTED EXTROGED

Serial No. 09/990,413 Docket No. Q048
Filing Date: 11/21/01
Inventor(s): Allbritton et al.



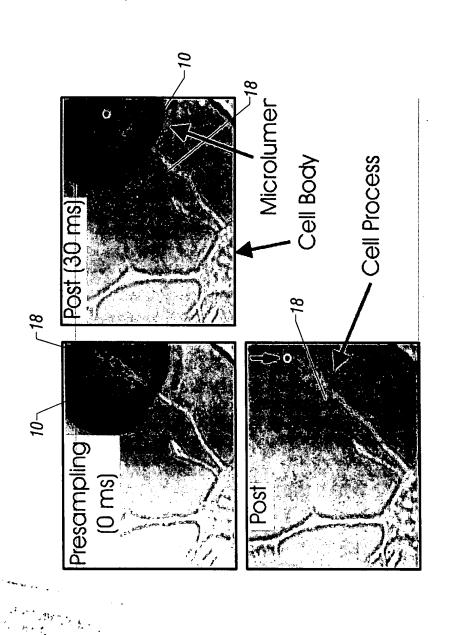


FIG. 6B

10/33

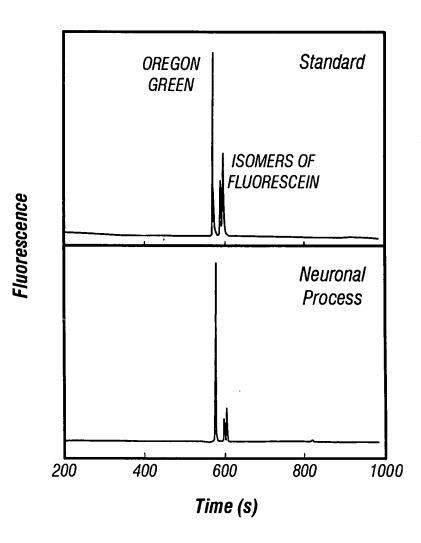


FIG. 6C



FIG. 7C

ALTERED REPORTER

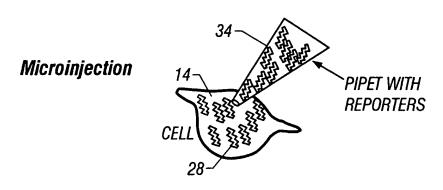


FIG. 8A

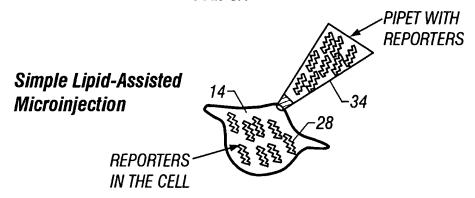


FIG. 8B

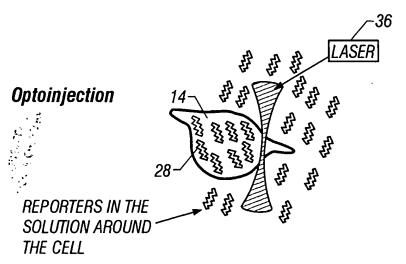


FIG. 8C

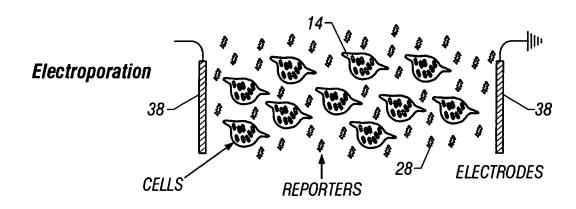


FIG. 9A

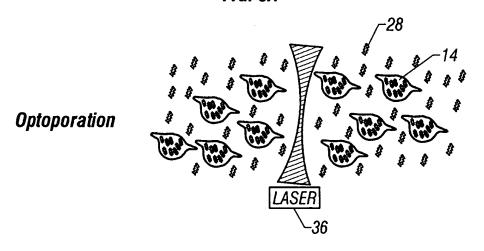


FIG. 9B

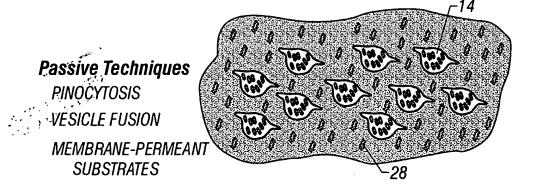
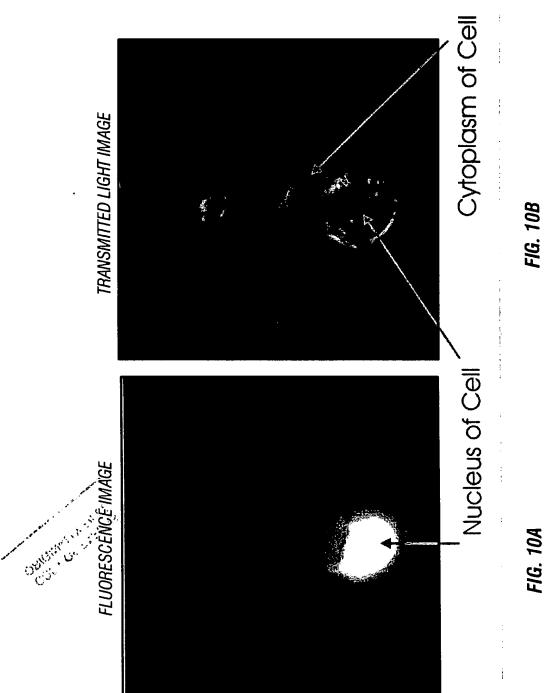
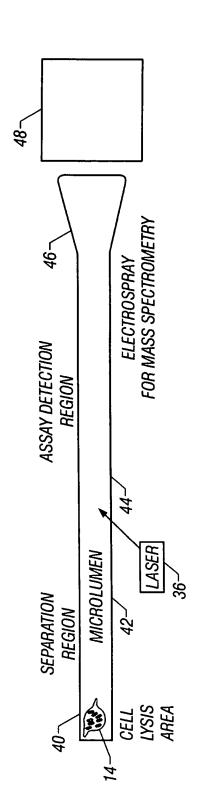


FIG. 9C

14/33

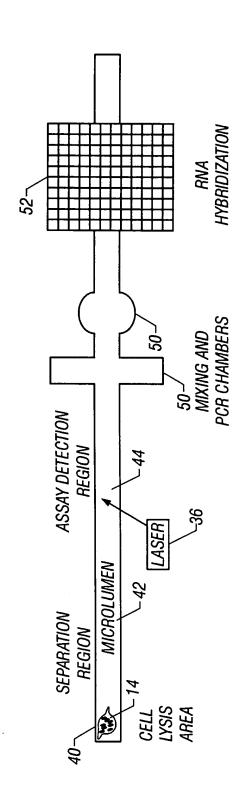


15/33



16. 11

16/33



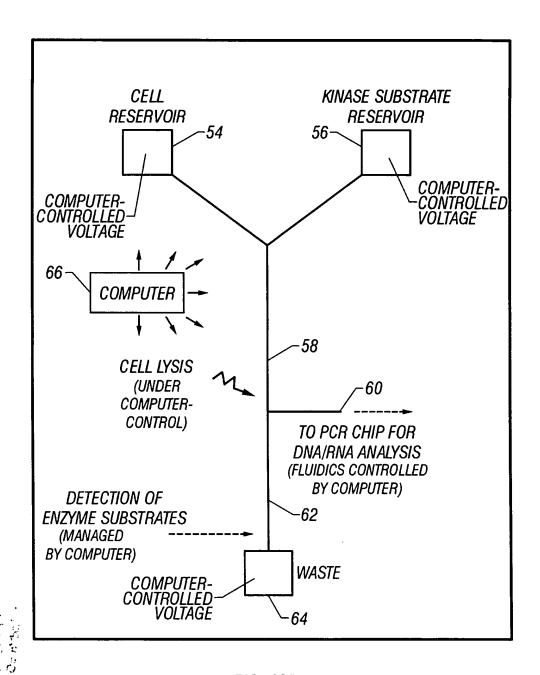
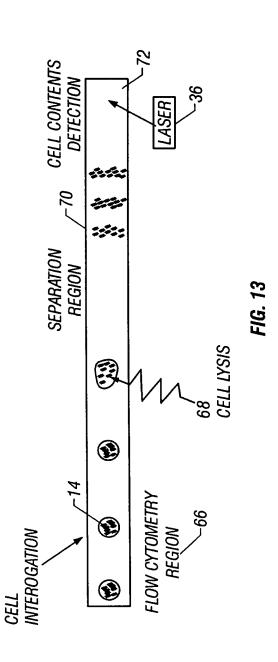


FIG. 12B

Ş.

18/33



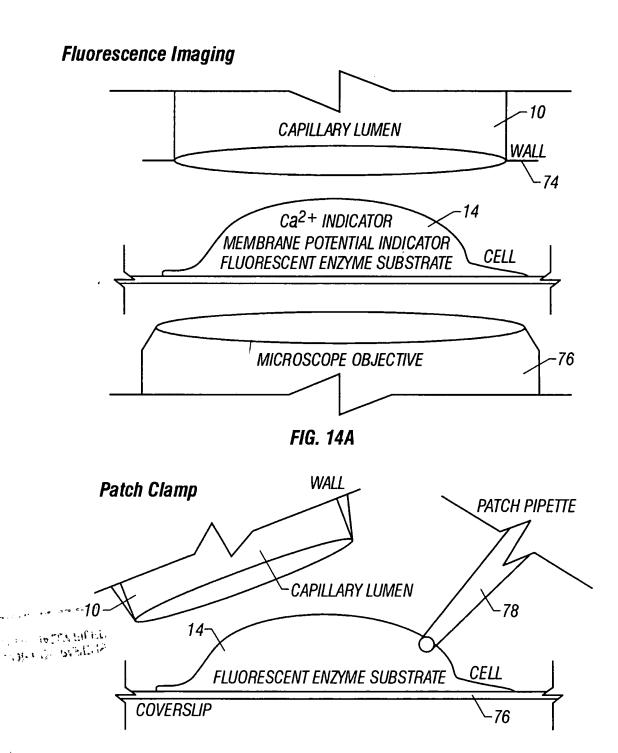


FIG. 14B

POPTED ETHOPPED

:,

22/33

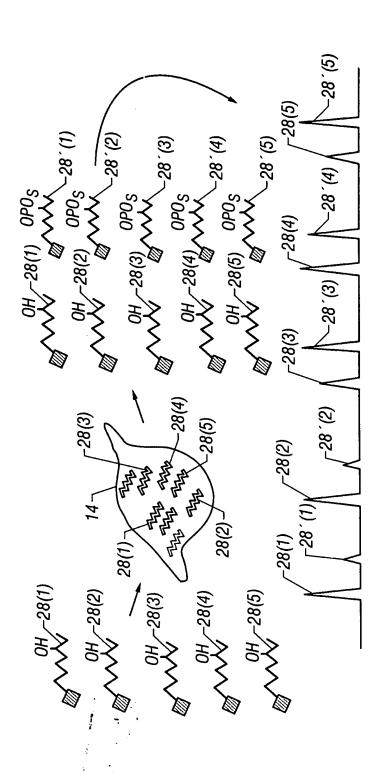
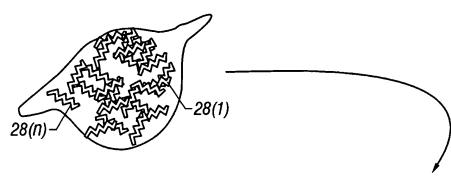


FIG. 16





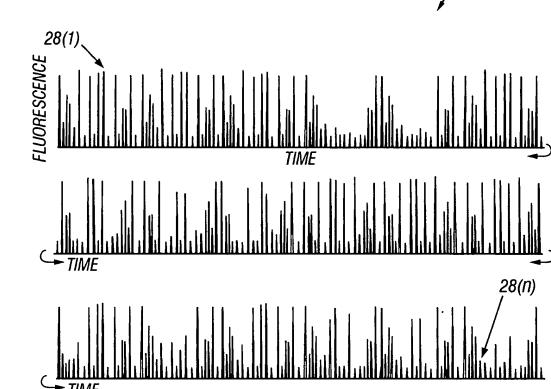
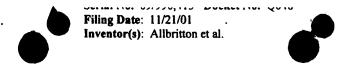


FIG. 18

POSTED" ETHOSOFO



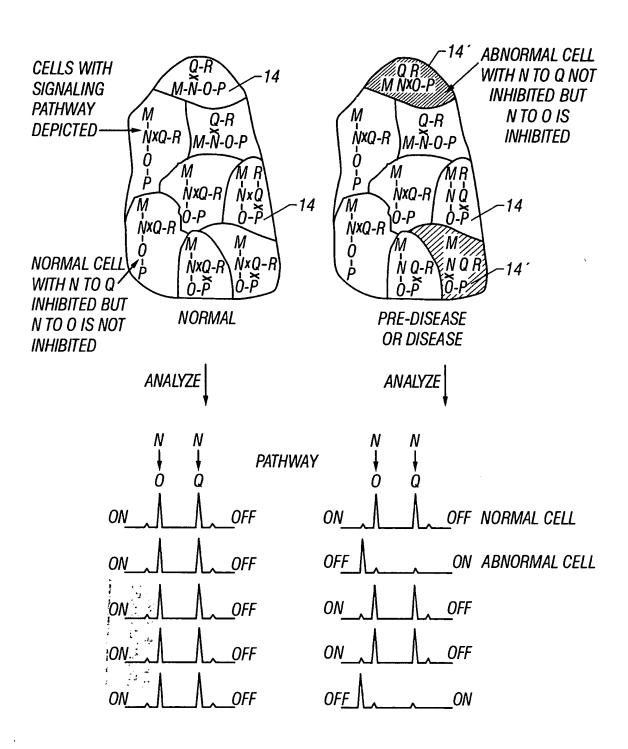


FIG. 22

20/33

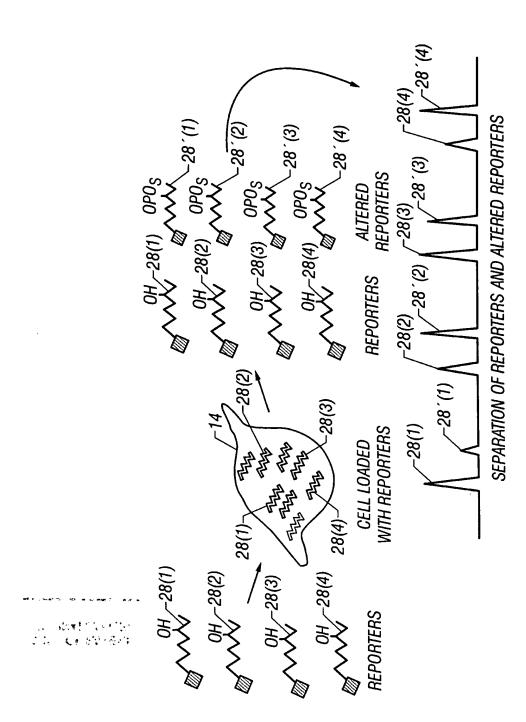


FIG. 15A

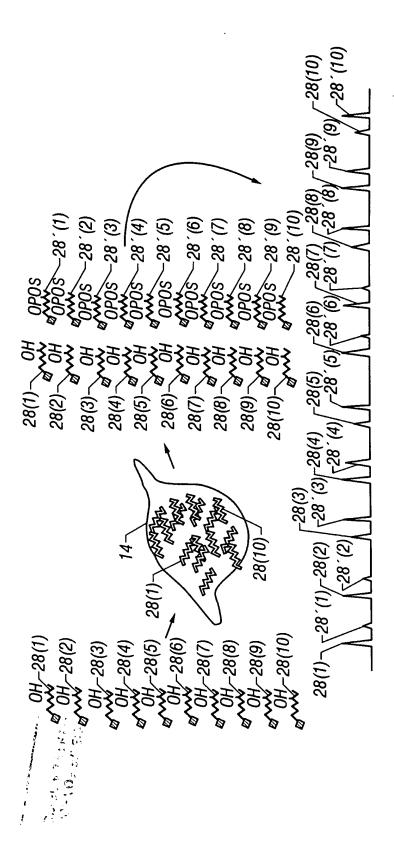


FIG. 17

25/33

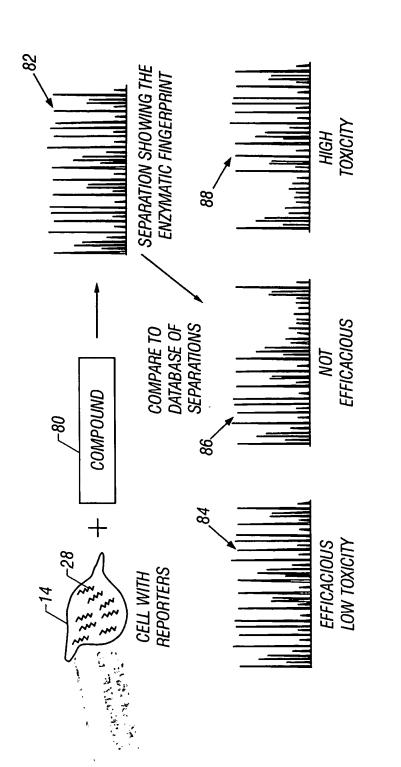


FIG. 19

Filing Date: 11/21/01

Inventor(s): Allbritton et al.

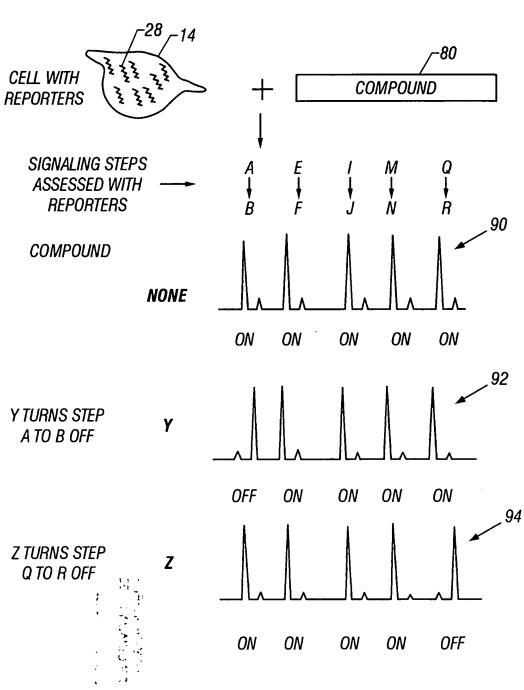
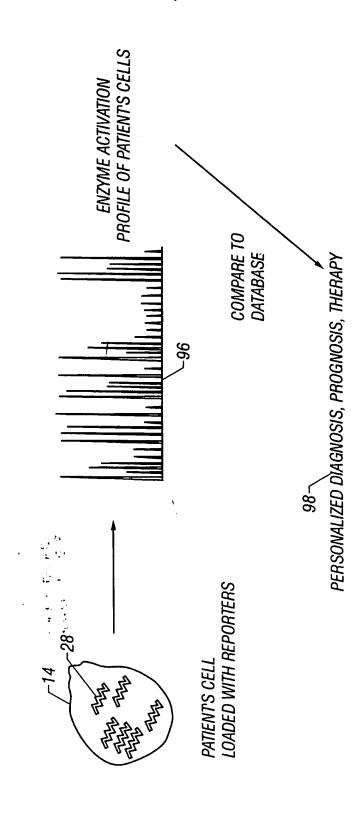


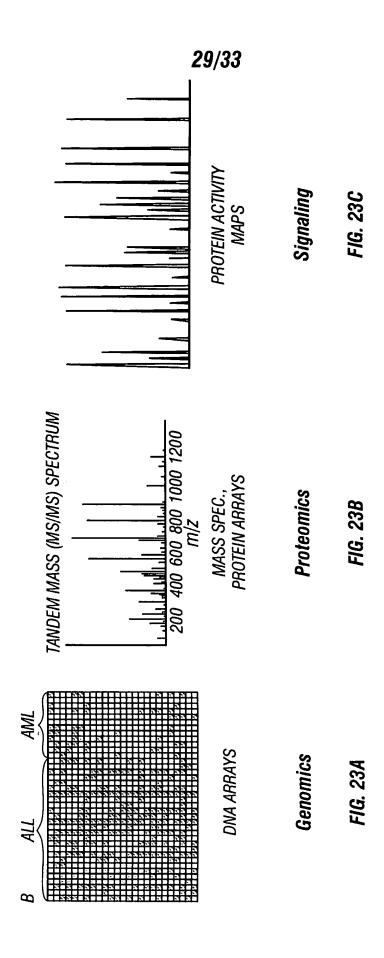
FIG. 20

27/33

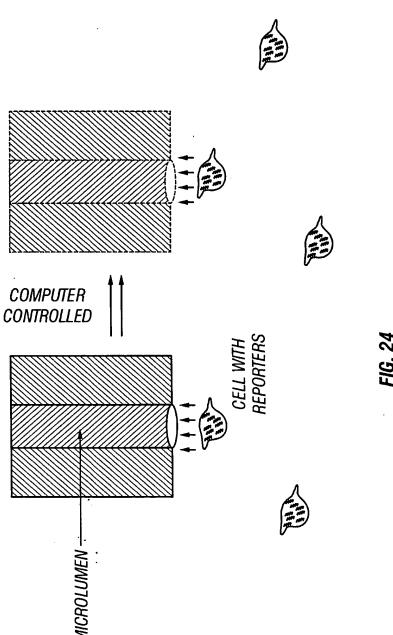


DIAGNOSTICS AND PROGNOSTICS

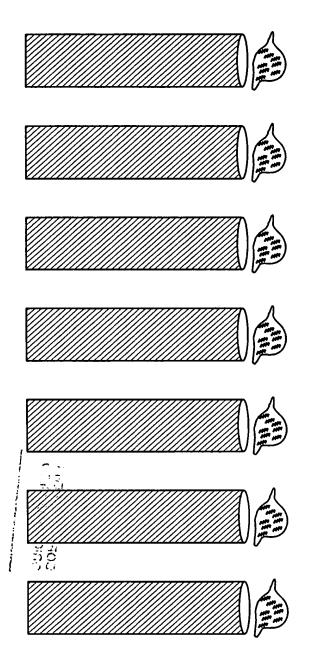
FIG. 21



30/33







COMPUTER-CONTROL OF MICROLUMEN ALIGNMENT OVER CELLS, LYSIS, AND/OR OTHER STEPS.

16. 25

Serial INO. 09/990,413 DOCKET INO. Q048 Filing Date: 11/21/01

Filing Date: 11/21/01
Inventor(s): Allbritton et al.

32/33

TABLE I

INFLUENCE OF THE INTRACELLULAR ENVIRONMENT

CELLULAR PROPERTY	IS IT THE SAME AFTER REMOVAL FROM THE CELL?
1. DNA, RNA (SEQUENCE, QUANTITY)	YES
2. PROTEIN (IDENTITY, CONC.)	LIKELY
2. ACTIVITY	USUALLY NOT

FIG. 26A-1

TABLE II

CELLULAR PROPERTIES ARE DISTINGUISHED BY THEIR TIMESCALES

DNA & RNA "GENOMICS"	MINUTES - YEARS
PROTEIN "PROTEOMICS"	SECONDS - HOURS
ACTIVITY "SIGNALING"	MILLISECONDS - SECONDS

FIG. 26A-2

33/33

TABLE III

A SAMPLING OF AVAILABLE TECHNOLOGIES

<u>FIELD</u>	PROPERTY	TECHNOLOGIES
1. GENOMICS	DNA, RNA	DNA ARRAYS
2. PROTEOMICS	PROTEIN IDENTITY & CONC.	PROTEIN GELS/ARRAYS MASS SPEC.
3. SIGNALING	ACTIVITY	GFP - BASED METHODS CRITICAL NEED

FIG. 26A-3